

**ABSTRACT**

The invention relates to a process for multi-layer coating of substrates, in particular vehicles and vehicle parts, by applying two or 5 more coating layers and curing of the applied coatings, wherein at least one of the coating layers is produced from a coating composition which comprises a binder system with free-radically polymerizable olefinic double bonds and with hydrolysable alkoxy silane groups, wherein the resin solids content of the coating composition exhibits an equivalent weight of C=C 10 double bonds of 200 - 2000 , preferably of 300 - 1500, and a content of silicon bound in alkoxy silane groups of 1 - 10 wt-%, preferably of 1 - 7 wt-%, especially preferably of 2 – 6 wt-%, and wherein curing of the coating 15 layer, of which there is at least one, proceeds by free-radical polymerization of the C=C double bonds under the action of thermal energy and by the formation of siloxane bridges under the action of moisture.